

Title (en)

Light emitting device package

Title (de)

Lichtemittierende Vorrichtungsverpackung

Title (fr)

Conditionnement de dispositif électroluminescent

Publication

EP 2413389 A3 20140806 (EN)

Application

EP 11175671 A 20110727

Priority

KR 20100072998 A 20100728

Abstract (en)

[origin: EP2413389A2] A light emitting device package is disclosed. The light emitting device package includes a body having a cavity, a light source mounted in the cavity, and at least one optical sheet located on the body to cover the cavity. The optical sheet includes a first layer and a second layer formed on the first layer, wherein the second layer includes a plurality of linear prism parts. At least one of the first layer and the second layer contains a light diffusive member. The light emitting device package has enhanced light emission efficiency and light distribution uniformity.

IPC 8 full level

H01L 33/58 (2010.01); **F21K 99/00** (2010.01); **F21V 8/00** (2006.01); **G02B 5/02** (2006.01); **G02B 5/04** (2006.01); **G02F 1/1335** (2006.01); **F21Y 101/02** (2006.01); **H01L 33/50** (2010.01)

CPC (source: EP US)

F21K 9/27 (2016.07 - EP US); **F21K 9/69** (2016.07 - EP US); **G02B 5/0242** (2013.01 - EP US); **G02B 5/0278** (2013.01 - EP US); **G02B 5/045** (2013.01 - EP US); **G02B 6/0038** (2013.01 - EP US); **G02B 6/0041** (2013.01 - EP US); **G02F 1/133606** (2013.01 - EP US); **H01L 33/58** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US); **G02F 1/133607** (2021.01 - EP US); **G02F 2202/046** (2013.01 - EP US); **H01L 33/50** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US); **H01L 2933/0091** (2013.01 - EP US)

Citation (search report)

- [X] EP 0789229 A2 19970813 - EATON CORP [US]
- [X] US 2006109682 A1 20060525 - KO YOUNGWOOK [KR], et al
- [XI] US 2009296021 A1 20091203 - LEE JUNGHOON [KR], et al
- [X] WO 2010030430 A1 20100318 - BRIDGELUX INC [US], et al
- [A] US 2006261366 A1 20061123 - YANG PI-FU [TW]
- [A] KR 20090077709 A 20090715 - KOLON INC [KR]
- [A] GB 2427754 A 20070103 - AVAGO TECH ECBU IP [SG]
- [A] KR 100785412 B1 20071213 - FORCE4 CORP [KR], et al

Cited by

WO2014008418A1; WO2017055401A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2413389 A2 20120201; **EP 2413389 A3 20140806**; **EP 2413389 B1 20190306**; CN 102347428 A 20120208; KR 101208174 B1 20121204; KR 20120011253 A 20120207; US 2012026720 A1 20120202; US 8613533 B2 20131224

DOCDB simple family (application)

EP 11175671 A 20110727; CN 201110220991 A 20110728; KR 20100072998 A 20100728; US 201113191936 A 20110727